BRUHATH BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE ELECTRICAL DIVISION

Name of the work :- Detaild estimate for Maintenance of Aerators and related lightings in Yelahanka oldtown and Allalsandra lake in ward No.1 & 5

Est Cost Rs. 800000.00

Sl. No	SR Page No	Description	Unit	Qty	Rate	Amount
1	Labour Dept	Licenced electricial wiremen with tools (Skilled) Rs.625.17/Days KAE 31 LMW 2017 Dated 30-12-2017 Minium Wages and VDA From 01-04-2022 to 31-03-2023	Days	165	625.17	103153.05
2	Labour Dept	Assistant wiremen (semiSkilled) Rs576.14/Days KAE 31 LMW 2017 Dated 30-12-2017 Minium Wages and VDA From 01-04-2022 to 31-03-2023	Days	165	576.14	95063.10
3	Labour Dept	Helper (Assistent) Rs531/Days KAE 31 LMW 2017 Dated 30-12-2017 Minium Wages and VDA From 01-04-2022 to 31-03-2023	Days	200	531.00	106200.00
4	3/2.3.2	Wiring for lighting/power circuit using one of **FRLS** PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments.1.5 sqmm2	m	200	26.00	5200.00
5	3/2.3.4	Wiring for lighting/power circuit using one of **FRLS** PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments.4 sqmm2	m	200	59.00	11800.00
6	36/11.8.4	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.**LED Streetlight 90 Watts**	No	14	7777.00	108878.00

7	45/13.5	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Each	14	189.00	2646.00
8	11/5.13.3	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.60 to 70Amps	Each	5	4926.00	24630.00
9	12/5.13.6	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.160	Each	2	14220.00	28440.00
10	21/63.05 CSR	Supplying Heavy Duty Copper Terminal Long Barrel 95 Sqmm Copper Terminal, Apprx Wt: 58 Gm	No	12	133.00	1596.00
11	12/5.14.8	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics)FOUR POLE 125 Amps 25kA.	Each	4	10072.00	40288.00
12	13/5.17.1	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32Amps SP	Each	15	523.00	7845.00
13	13/5.17.4	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32Amps DP	Each	6	1103.00	6618.00
14	13/5.17.9	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.50-63Amps TPN	Each	5	2399.00	11995.00
15	14/5.38	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 230/440v A.C. 50 Hz 12/24v D.C.	Each	20	464.00	9280.00
16	9/31.06 BESCOM SR	Laying of cable in Existing Trench/GI pipe/Stone Ware/RCC Hume pipe using Wooden/Aluminum Rollers as directed by the departmental staff LT Cable 35 to 95 Sqmm	KM	0.250	23647.00	5911.75
17	4/2.6.3	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts **as per IS-694:1990.3C X 4.0Sq.mm**	m	250	167.00	41750.00
		Total Rs				**611293.90**

18	9/32.08 BESCOM SR	Supplying of1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part- 1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 25 Sqmm, 4 Core, (13 GI Strips - 4 x 0.8 mm)	KM	0.150	240813.00	36121.95
19	9/32.13 BESCOM SR	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 70 Sqmm, 3.5 Core, (18 GI Strips - 4 x 0.8 mm)	KM	0.100	423672.00	42367.20
		Total Rs				**689783.05**
		Add GST 18 % on item No 1 to 17			611293.90	**110032.90**
		Misscelleneous charges				**184.05**
		TOTAL				**800000.00**

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD(Elec) SR of 2022-23,BESCOM CSR 2021-22

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 8.00 lakhs
Rupees Eight Lakhs only
is accorded under head P0298
Registered as EE No. 05/2022-23 Subject to conditions contained in enclosed memo No. BBMP/EE(ELE)/42/AS/05/2022-23 Dt 28.12.2022
Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 8.00 lakhs
Rupees Eight Lakhs only
Under P0298
Registered as EE ( ) No. 9
Subject to conditions contained in enclosed memo EE ( ) No. BBMP/EE(EE)/42/TS/05/2022-23
Dt. 28/12/2022 Estimate A/ Sanction No. BBMP/EE(EE)/42/TS/05/2022-23
Dated 28.12.2022 Rs. 8.00 lakhs
Executive Engineer